

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS)/CPS (COUNTDOWN PEDESTRIAN SIGNALS) AND INSTALLATION OF ADA COMPLIANT CURB RAMP AT THE INTERSECTION OF MD 174 (REECE ROAD) AND PIONEER DRIVE IN ANNE ARUNDEL COUNTY, MARYLAND. MD 174 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 174 (REECE ROAD) AND PIONEER DRIVE - EAST LEG

STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS REECE AT PIONEER, WAIT." **

WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

MR. JOE GECKLE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1000

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9571	2 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS REECE ROAD"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

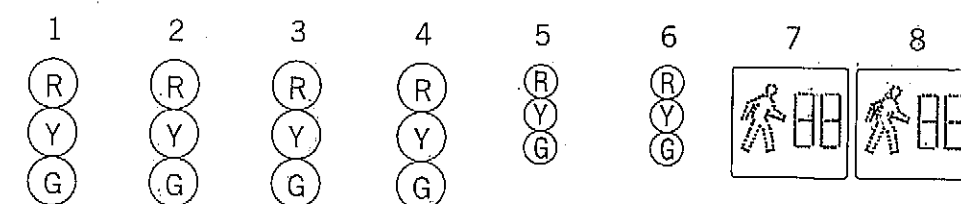
STANDARD NO. MD-104.02-01 (SHOULDER WORK)	STANDARD NO. MD-104.02-09 (FLAGGING OPERATION)
STANDARD NO. MD-104.02-03 (LANE SHIFT RIGHT OR LEFT)	STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.02-07 (LANE SHIFT FOR COMPLETE TRAVEL WAY BLOCKAGE)	STANDARD NO. MD-104.06-11 (MOBILE SERVICE WORK)

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

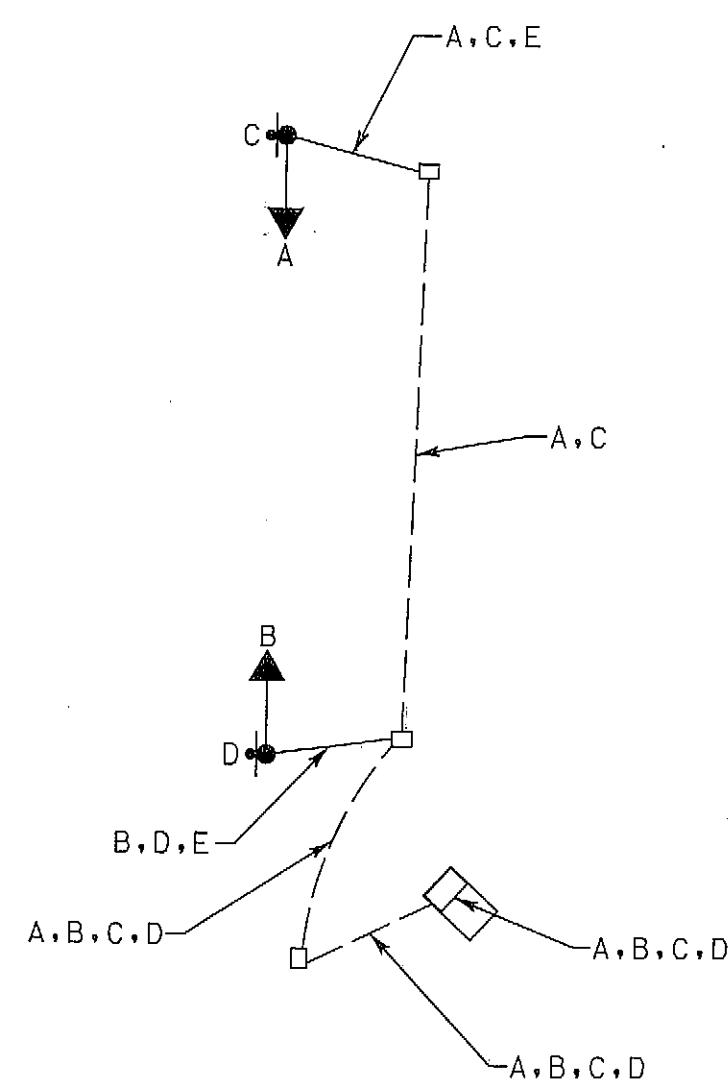
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	3 C.Y.	CLASS 2 EXCAVATION
2002	2 C.Y.	TEST PIT EXCAVATION
5003	490 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	520 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5001	135 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	665 S.F.	5 INCH CONCRETE SIDEWALK
6003	60 S.F.	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8002	1 EACH	2-WIRE CENTRAL CONTROL UNIT
8008	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	2 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8027	1 EACH	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	15 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8044	67 L.F.	WOOD SIGN SUPPORTS UP TO 4" X 6"
8045	72 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	35 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	200 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	220 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

PHASE CHART



PHASE 2 + 6	G	G	G	G	R	R	DW	DW	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	DW	DW	
PHASE 4	R	R	R	R	G	G	DW	DW	
4 CHANGE	R	R	R	R	Y	Y	DW	DW	
PHASE 4 ALT	R	R	R	R	G	G	WK	WK	
PED. CLEARANCE	R	R	R	R	G	G	FLDW	FLDW	
PHASE 4 ALT CHANGE	R	R	R	R	Y	Y	DW	DW	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	DARK	DARK	

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B }
C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D }
E } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

TOD NO: XX525-05
SHA NO: AA164B51
MD 174 @ Pioneer Rd/MD 175 @
Odenton Shopping Center



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 174 (REECE ROAD) AND PIONEER DRIVE
VAN BOKKELEN ELEMENTARY SCHOOL
(ODENTON, MARYLAND)

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	JUNE 2013	CONTRACT NO.	XX5255185
DESIGNED BY	J. RASMUSSEN	COUNTY	ANNE ARUNDEL		
DRAWN BY	J. RASMUSSEN	LOGMILE	02017400.48		
CHECKED BY	N. LEARY	TMS NO.	L659		
F.A.P. NO.		TOD NO.			
TS NO. 2494D	DRAWING TSP-6	OF 6	SHEET NO. 6	OF 6	

WR&A
WHITMAN, REQUARDT
& ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

PLOTTED: June 28, 2013
FILE: N:\1889-274\CADD\p5g-P006_MD174.dgn